

Northstar Polymers MSS-A95BQ Ester Base High Performance Polyurethane

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Liquid

Material Notes:

This high-performance quasi-polyester system is one of a family of polymer systems developed by Northstar Polymers for demanding work environments. Urethane elastomers molded with this system exhibit high tear strength, high tensile elongation, excellent oil resistance, and outstanding abrasion resistance. They also meet the requirements of 21 CFR 177.1680, FDA direct dry food contact. This combination of features makes elastomers molded from MSS-A95BQ perfect for many applications including the handling of wood chips, grain, sand, gravel and other commodities, mining, and many custom applications. For long-term use in constant aqueous environments, consider a polyether or hybrid product system. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MSS-A95BQ-Ester-Base-High-Performance-Polyurethane.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Tensile Strength	37.9 MPa	5500 psi	ASTM D412
Elongation at Break	700 %	700 %	ASTM D412
Tear Strength	101 kN/m	576 pli	Split; ASTM D624
	160 kN/m	913 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	75	75	ASTM D4060

Processing Properties	Metric	English	Comments
Processing Temperature	82.2 - 93.3 °C	180 - 200 °F	Prepolymer Temperature
	82.2 - 93.3 °C	180 - 200 °F	Curing Agent Temperature
Mold Temperature	82.2 - 93.3 °C	180 - 200 °F	

Descriptive Properties	Value	Comments
Curing Agent	SBA-021	
Prepolymer	MSA-018	
Weight Ratio	1:1.126	Prepolymer to Curing Agent Ratio

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